FIRE LOSSES IN BRITISH COLUMBIA IN 1987

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Fire Losses in British Columbia, 1987

Last year British Columbia had the lowest number of fire deaths in forty-one years. Forty-two persons died and 398 were injured as a result of 7,542 fires in 1987, causing a total dollar loss of $117,159,528. The losses for the last ten years have been as follows:

Year	Number of Fires	$ Loss (millions)	$ Loss (millions) Adjusted for Inflation to 1981 Constant $	Number Injured	Number Dead
1987	7,542	117.1	87.9	398	42
1986	7,667	109.8	84.9	343	58
1985	8,285	131.9	105.3	398	60
1984	7,237	108.9	89.7	396	79
1983	7,724	131.7	112.9	404	83
1982	7,623	157.3	142.3	375	73
1981	7,023	115.7	115.7	244	76
1980	7,605	108.7	124.2	308	77
1979	7,655	105.9	132.4	444	125

The average loss per fire for the province in 1987 was $15,534 and the per capita loss was $40.55, up from $38.41 in 1986. There was an average of 2.58 fires for every 1,000 persons in British Columbia.

Fire Fatalities

- Twenty-four men, 13 women and 5 children lost their lives as a result of fire last year.
- 14 of the 42 fire fatalities (33 per cent) were over 60 years of age. Of the 13 women fatalities, 8 were over 70 years old.
- 15 fire fatalities resulted from careless smoking. This number has been declining over recent years; in 1986 the figure was 18, in 1985 the figure was 19, and in 1984 it was 32.
- At least 4 persons who died were impaired by alcohol, drugs or medication. At least 10 persons who died from fire were asleep at the time of the fire.

Residential Fires

Thirty-one per cent of all fires in 1987 were in one- and two-family dwellings, resulting in a total loss of $36.9 million. A further seven per cent of the fires were in apartment buildings with a loss of $7.1 million. These two residential categories accounted for thirty eight per cent of the total number of fires and thirty-seven per cent of the total 1987 fire losses in the province.

Thirty-seven of the 42 fire fatalities, or 88 per cent, occurred in residential fires, including hotels and mobile homes. There were 22 fatalities in one- and two-family dwellings and 6 in apartment buildings. The time period between 10 p.m. and 7 a.m. accounted for fourteen of the 22 fire deaths in one- and two-family dwellings, and 3 of the 6 fire deaths in apartment buildings.

The fire experience in one- and two-family dwellings and apartment buildings

Comparison of One- and Two-Family Dwellings and Apartment Fire Incidents

	1- & 2- Family Dwelling	Apartment Building	
Total number of fires in property group	**2,355**	**514**	
Cooking Fires	**598**	**132**	
As a percentage of all fires in property group	25.4%	25.7%	
As a percentage of total $ loss in property group	11.1%	9.1%	
No. of fatalities over total in property group	0/22	2/6	
Heating Equipment Fires	**578**	**17**	
As a percentage of all fires in property group	24.5%	3.3%	*
As a percentage of total $ loss in property group	21.0%	3.6%	*
No. of fatalities over total in property group	2/22	0/6	
Smokers Material Fires	**169**	**107**	
As a percentage of all fires in property group	7.2%	20.8%	*
As a percentage of total $ loss in property group	8.1%	20.1%	*
No. of fatalities over total in property group	13/22	4/6	
Arson Fires	**197**	**109**	
As a percentage of all fires in property group	8.4%	21.2%	*
As a percentage of total $ loss in property group	11.9%	27.6%	*
No. of fatalities over total in property group	0/22	0/6	

indicates significant differences between the two groups. See chart below; asterisks highlight differences.

Heating equipment fires accounted for 24.5 per cent of the fires in one- and two-family dwellings, but only 3.3 per cent in apartment building fires.

Of all heating equipment fires in one- and two-family dwellings, 73 per cent were

Igniting Object	Fires	Injuries	Dead	$ Loss
Central heating unit	5	1	0	42,297
Space heater	86	2	0	1,178,411
Fireplace	111	1	0	856,345
Masonry chimney	117	1	0	729,888
Factory-built metal chimney	70	0	0	867,146
Flue connector	21	0	0	438,894
Heating equipment - other	12	3	0	126,098
1987 Total	**422**	**8**	**0**	**4,239,511**
1986 Total (for comparison)	452	11	7	5,516,620

related to the use of solid fuel. The igniting objects (sources of ignition) for these solid-fuel fires were:

Smokers materials accounted for about 7.2 per cent of one- and two-family dwelling fires but 20.8 per cent for apartment fires. Smokers' material was responsible for the largest life-loss fire last year in which a mother and three daughters died.

The **rate of arson** in apartment buildings was two and a half times that in one- and two-family dwellings.

Educational Institutions

There were 79 fires in educational institutions in 1987 resulting in a loss of $2,804,575. The number of fires in schools peaked in 1979 when there were 125 fires which caused a loss of $9.3 million.

Over 92 per cent of the fire loss in educational institutions was caused by set fires. This high percentage is consistent with previous years.

Automobile Fires

There were 2,085 automobile fires in British Columbia in 1987. These fires accounted for 27 per cent of the number of fires in 1987 causing a loss of $4.2 million.

Large Dollar-Loss Fires

There were 22 fires in which the individual losses exceeded $500,000 each. Although they accounted for one third of one per cent of the total fires, they were responsible for $30.1 million loss, constituting 25.7 per cent of the province's annual dollar losses. Six of the fires in this large loss category were a result of arson or suspected arson and caused a loss of $6.3 million.

Arson

1,277 fires out of the total 7,542 (17 per cent) fires in 1987 were arson or suspected arson, causing a loss of $23.6 million (20.0 per cent of dollar losses). In 1986, 1,152, or

15 per cent of total fires were *set* and caused a loss of $17 million (16 per cent of dollar loss).

The percentage of arson fires over the total number of fires peaked in 1976 at 23.3 per cent Of the 1,277 arson incidents, 342 (26.8 per cent) were classified as vandalism

Act or Omission	Fires	Injured	Dead	$ Loss
Arson for financial gain	13	0	0	213,418
Arson as a cover-up crime	168	3	0	3,496,966
Arson - political, religious motive	1	0	0	8,000
Arson for revenge, spite	23	1	0	939,600
Arson - mental disorder, suicide	26	2	0	318,535
Arson - vandalism, mischief	342	3	0	2,000,100
Arson - motive unknown/unclassified	318	7	0	7,204,732
Suspected arson - motive unknown or unclassified	386	24	0	9,441,943
Total	**1,277**	**40**	**0**	**23,623,294**

or mischief. This category has historically accounted for the bulk of arson incidents. A breakdown of the arson incidents is as follows:

The frequency of arson is heaviest in the urban areas: 30 per cent of fires in Vancouver City were arson compared to about 10 per cent in the Northern region of the province and 13 per cent in the Kootenays and the interior regions.

Rick Dumala, P.Eng
Fire Commissioner

Fire Losses in Municipal Areas

Loc. Code	Location	Population	No. of Fires	Injured	Dead	$ Loss	Loss Per Fire	Per Capita Loss	Fires Per 1000 Persons
VHM	100 Mile House	1,686	10	1	1	191,798	19,180	113.76	5.93
DAB	Abbotsford	15,062	64	3	0	185,585	2,900	12.32	4.25
CAR	Armstrong	2,747	9	0	0	209,704	23,300	76.34	3.28
VAS	Ashcroft	1,807	7	0	0	113,703	16,243	62.92	3.87
DBU	Burnaby	146,217	306	13	1	3,568,963	11,663	24.41	2.09
VBU	Burns Lake	1,701	3	2	0	46,339	15,446	27.24	1.76
VCA	Cache Creek	1,059	3	0	0	44,980	14,993	42.47	2.83
DCA	Campbell River	17,359	57	2	0	279,674	4,907	16.11	3.28
CCA	Castlegar	6,293	23	0	0	300,608	13,070	47.77	3.65
DCE	Central Saanich	11,790	2	0	0	4,872	2,436	0.41	0.17
VCH	Chase	1,889	10	0	0	147,812	14,781	78.25	5.29
VCD	Chetwynd	2,710	16	0	0	407,113	25,445	150.23	5.90
DCH	Chilliwack	42,347	138	2	0	3,475,342	25,184	82.07	3.26
DCO	Coldstream	6,968	7	0	0	144,301	20,614	20.71	1.00
CCL	Colwood	11,776	30	1	0	79,458	2,649	6.75	2.55
TCO	Comox	7,012	9	0	0	53,594	5,955	7.64	1.28
DCQ	Coquitlam	71,552	125	8	0	818,919	6,551	11.45	1.75
CCO	Courtenay	9,659	45	1	0	275,997	6,133	28.57	4.66
CCR	Cranbrook	15,423	52	5	0	238,504	4,587	15.46	3.37
TCR	Creston	3,934	20	2	0	456,440	22,822	116.02	5.08
VCU	Cumberland	1,916	5	1	0	143,524	28,705	74.91	2.61
CDA	Dawson Creek	10,599	27	1	0	610,316	22,604	57.58	2.55
DDE	Delta	80,268	91	5	0	1,022,476	11,236	12.74	1.13
CDU	Duncan	3,911	19	1	0	161,227	8,486	41.22	4.86
DEL	Elkford	3,055	7	0	0	33,944	4,849	11.11	2.29
CEN	Enderby	1,853	8	0	0	83,046	10,381	44.82	4.32
DES	Esquimalt	16,273	11	1	0	118,757	10,796	7.30	0.68
CFE	Fernie	4,900	15	0	0	101,457	6,764	20.71	3.06
VFO	Fort Nelson	3,651	9	0	0	121,833	13,537	33.37	2.47
VSJ	Fort St. James	1,976	3	0	0	77,256	25,752	39.10	1.52
CJO	Fort St. John	13,072	24	0	0	377,611	15,734	28.89	1.84
VFR	Fruitvale	1,865	3	0	0	2,438	813	1.31	1.61
VGL	Gibsons	2,680	7	0	0	16,013	2,288	5.98	2.61
VGO	Gold River	1,847	6	1	0	23,425	3,904	12.68	3.25
TGO	Golden	3,598	11	3	1	271,790	24,708	75.54	3.06
CGF	Grand Forks	3,173	10	0	0	34,915	3,492	11.00	3.15
VGI	Granisle	597	2	0	0	9,300	4,650	15.58	3.35
CGR	Greenwood	735	1	0	0	290	290	0.39	1.36
VHH	Harrison Hot Springs	651	2	1	0	80,000	40,000	122.89	3.07
VHA	Hazelton	466	5	0	0	22,465	4,493	48.21	10.73
THO	Hope	3,034	5	0	0	38,253	7,651	12.61	1.65
DHO	Houston	3,817	13	0	0	98,993	7,615	25.93	3.41
DHH	Hudson's Hope	1,159	3	0	0	30,636	10,212	26.43	2.59
VIN	Invermere	1,982	8	0	0	52,187	6,523	26.33	4.04
CKA	Kamloops	61,877	202	26	1	1,561,234	7,729	25.23	3.26
VKA	Kaslo	836	6	1	0	26,101	4,350	31.22	7.18
CKE	Kelowna	62,980	148	11	3	2,747,900	18,567	43.63	2.35
DKE	Kent	3,783	4	0	0	35,748	8,937	9.45	1.06
VKE	Keremeos	832	4	0	0	109,350	27,338	131.43	4.81

Loc. Code	Location	Population	No. of Fires	Injured	Dead	$ Loss	Loss Per Fire	Per Capita Loss	Fires Per 1000 Persons
CKI	Kimberley	6,303	9	0	0	147,466	16,385	23.40	1.43
DKI	Kitimat	11,037	39	4	0	236,268	6,058	21.41	3.53
TLA	Ladysmith	4,430	7	0	0	328,878	46,983	74.24	1.58
VLC	Lake Cowichan	2,165	13	0	0	282,540	21,734	130.50	6.00
DLA	Langley	55,694	127	1	0	1,292,926	10,181	23.21	2.28
CLA	Langley	16,931	59	3	0	327,308	5,548	19.33	3.48
VLI	Lillooet	1,748	7	0	0	145,507	20,787	83.24	4.00
VLB	Lions Bay	1,150	5	0	0	14,945	2,989	13.00	4.35
VLL	Logan Lake	1,886	5	0	0	16,611	3,322	8.81	2.65
VLU	Lumby	1,171	7	0	0	39,032	5,576	33.33	5.98
DMA	Mackenzie	5,365	22	0	0	232,308	10,559	43.30	4.10
DMR	Maple Ridge	38,665	67	5	0	698,134	10,420	18.06	1.73
VMA	Masset	1,526	4	0	0	66,351	16,588	43.48	2.62
DMT	Matsqui	53,541	122	13	4	2,600,790	21,318	48.58	2.28
CME	Merritt	6,161	17	0	0	219,800	12,929	35.68	2.76
TME	Metchosin	3,779	2	0	0	290,000	145,000	76.74	0.53
VMI	Midway	642	1	0	0	80,000	80,000	124.61	1.56
DMI	Mission	22,591	63	0	0	736,157	11,685	32.59	2.79
VMO	Montrose	1,162	1	0	0	3,455	3,455	2.97	0.86
VNA	Nakusp	1,332	4	0	0	34,652	8,663	26.02	3.00
CNA	Nanaimo	49,424	140	15	1	983,643	7,026	19.90	2.83
CNE	Nelson	8,072	32	1	0	929,816	29,057	115.19	3.96
VND	New Denver	591	3	0	0	50,141	16,714	84.84	5.08
DNH	New Hazelton	837	3	0	0	64,698	21,566	77.30	3.58
CNW	New Westminster	39,966	148	1	0	2,608,919	17,628	65.28	3.70
DNC	North Cowichan	18,902	37	1	3	1,789,472	48,364	94.67	1.96
DNS	North Saanich	7,479	11	2	0	50,248	4,568	6.72	1.47
DNV	North Vancouver	69,698	125	13	1	2,004,144	16,033	28.75	1.79
CNO	North Vancouver City	36,063	91	9	0	690,603	7,589	19.15	2.52
DOB	Oak Bay	17,220	26	0	0	191,935	7,382	11.15	1.51
VOL	Oliver	1,971	8	0	1	15,798	1,975	8.02	4.06
VOS	Osoyoos	2,892	16	0	0	52,428	3,277	18.13	5.53
TPA	Parksville	5,927	5	0	0	5,534	1,107	0.93	0.84
DPE	Peachland	3,053	4	0	0	160,900	40,225	52.70	1.31
VPE	Pemberton	362	2	0	0	2,400	1,200	6.63	5.52
CPE	Penticton	24,342	67	0	0	528,482	7,888	21.71	2.75
DPI	Pitt Meadows	8,400	30	9	0	1,276,900	42,563	152.01	3.57
CPA	Port Alberni	18,150	65	5	0	259,185	3,987	14.28	3.58
VPO	Port Alice	1,356	1	0	0	500	500	0.37	0.74
CPC	Port Coquitlam	29,995	73	6	0	1,778,475	24,363	59.29	2.43
VPD	Port Edward	626	1	0	0	26,000	26,000	41.53	1.60
DPH	Port Hardy	5,166	4	0	0	99,262	24,816	19.21	0.77
VPM	Port McNeill	2,462	2	0	0	54,381	27,191	22.09	0.81
CPO	Port Moody	15,895	36	1	0	984,428	27,345	61.93	2.26
VPC	Pouce Coupe	800	4	1	0	31,371	7,843	39.21	5.00
DPR	Powell River	12,087	37	8	1	792,875	21,429	65.60	3.06
CPG	Prince George	66,612	232	0	0	2,819,900	12,155	42.33	3.48
CPR	Prince Rupert	15,812	21	0	0	294,518	14,025	18.63	1.33
TPR	Princeton	2,661	4	0	0	29,059	7,265	10.92	1.50
VQB	Qualicum Beach	3,464	2	0	0	1,461	731	0.42	0.58
CQU	Quesnel	8,222	42	0	0	226,134	5,384	27.50	5.11

Loc. Code	Location	Population	No. of Fires	Injured	Dead	$ Loss	Loss Per Fire	Per Capita Loss	Fires Per 1000 Persons
CRE	Revelstoke	8,100	29	0	0	154,210	5,318	19.04	3.58
DRI	Richmond	111,597	199	9	1	3,118,760	15,672	27.95	1.78
CRO	Rossland	3,345	9	0	0	70,881	7,876	21.19	2.69
DSA	Saanich	85,040	133	5	0	1,021,114	7,678	12.01	1.56
VSA	Salmo	947	1	0	0	5,364	5,364	5.66	1.06
DSM	Salmon Arm	10,976	38	1	0	268,362	7,062	24.45	3.46
VSD	Sayward	409	3	0	0	12,818	4,273	31.34	7.33
VSE	Sechelt	4,890	13	0	0	114,474	8,806	23.41	2.66
TSI	Sidney	9,046	23	1	0	129,037	5,610	14.26	2.54
TSM	Smithers	4,624	26	6	0	271,967	10,460	58.82	5.62
DSP	Spallumcheen	4,371	3	0	0	9,584	3,195	2.19	0.69
DSD	Sparwood	4,171	12	0	0	24,929	2,077	5.98	2.88
DSQ	Squamish	10,322	31	5	0	135,191	4,361	13.10	3.00
DST	Stewart	1,008	2	1	1	85,011	42,506	84.34	1.98
DSL	Summerland	8,020	11	0	0	77,553	7,050	9.67	1.37
DSY	Surrey	191,134	441	22	1	4,793,407	10,869	25.08	2.31
VTA	Tahsis	1,260	4	0	0	16,750	4 188	13.29	3.17
VTR	Taylor	651	1	0	0	20,000	20,000	30.72	1.54
VTE	Telkwa	837	3	0	0	13,154	4,385	15.72	3.58
DTE	Terrace	10,651	30	3	0	438,674	14,622	41.19	2.82
VTO	Tofino	959	1	0	0	1,646	1,646	1.72	1.04
CTR	Trail	7,730	19	0	0	50,207	2,642	6.50	2.46
DTU	Tumbler Ridge	4,108	15	0	0	88,822	5,921	21.62	3.65
VUC	Ucluelet	1,472	9	3	0	209,724	23,303	142.48	6.11
VVA	Valemount	1,141	3	0	0	63,595	21,198	55.74	2.63
CVA	Vancouver	435,494	1278	87	7	18,698,148	14,631	42.94	2.93
VVF	Vanderhoof	3,329	7	0	0	83,220	11,889	25.00	2.10
CVE	Vernon	20,401	51	0	0	532,880	10,449	26.12	2.50
CVI	Victoria	66,973	207	11	2	6,639,950	32,077	99.14	3.09
DWV	West Vancouver	36,592	73	2	1	244,824	3,354	6.69	1.99
DWH	Whistler	2,193	25	0	0	370,467	14,819	168.93	11.40
CWR	White Rock	14,767	26	1	0	191,934	7,382	13.00	1.76
CWI	Williams Lake	10,327	40	0	0	139,600	3,490	13.52	3.87

Fire Losses in Non-Municipal Areas

Loc Code	Location	No. of Fires	Injured	Dead	$ Loss	Loss/Fire
Non-Municipal Areas With Fire Protection						
NAN	Anglemont	1	0	0	3,000	3,000
NAR	Arras	1	0	0	1,000	1,000
NSW	BX Swan Lake	10	0	0	235,213	23,521
NBH	Balfour/Harrop	2	0	0	103,164	51,582
NBD	Bamfield	2	0	0	35,000	17,500
NBA	Barriere	2	0	0	1,525	763
NBC	Beaver Creek	1	0	0	175,000	175,000
NBV	Blue River	1	0	0	19,500	19,500
NBO	Boston Bar	4	0	0	20,300	5,075
NBU	Bouchie Lake	1	0	0	25,000	25,000
NBI	Bowen Island	2	0	0	9,900	4,950
NBW	Bowhorn Bay/Bowser	1	0	0	47,000	47,000
NCN	Canyon Lister	4	0	0	94,728	23,682
NCK	Charlie Lake	3	0	1	66,673	22,224
NCC	Cherry Creek (Van. Isl.)	1	0	0	110,000	110,000
NCU	Chilliwack River Valley	3	0	0	204,874	68,291
NCT	Christina Lake	3	0	0	159,594	53,198
NCX	Clearwater	2	0	0	55,610	27,805
NCW	Colwood Rural	1	0	0	1,400	1,400
NCO	Coombs/Hillier	6	1	0	98,195	16,366
NCQ	Courtenay Rural	10	0	1	186,728	18,673
NCB	Cowichan Bay	4	0	0	12,210	3,053
NCZ	Cranberry	1	0	0	19,165	19,165
NCE	Creston Rural	8	0	0	87,962	10,995
NCD	Cumberland Rural	1	0	0	8,433	8,433
NDA	Dawson Creek Rural	3	0	0	3,500	1,167
NDI	Denman Island	1	0	0	1,481	1,481
NDU	Duncan Rural	2	0	0	2,387	1,194
NER	Errington	1	0	0	25,745	25,745
NEX	Extension	1	0	0	2,049	2,049
NFB	Fanny Bay	1	0	0	28,000	28,000
NFT	Ferndale-Fabor	5	0	0	70,855	14,171
NFE	Fernie Rural	1	0	0	125	125
NFI	Field	1	0	0	3,000	3,000
NFG	Forest Grove	1	0	0	95,815	95,815
NFF	Fort Fraser	1	0	0	8,745	8,745
NFN	Fort Nelson Rural	3	0	0	68,943	22,981
NGI	Gabriolan Island	5	0	1	80,640	16,128
NGE	Genelle	1	0	0	8,560	8,560
NGR	Grand Forks Rural	15	0	0	56,578	3,772
NHG	Hagensborg	1	0	0	40,600	40,600
NHM	Halfmoon Bay	1	0	0	2,000	2,000
NHE	Hedley	1	0	0	3,605	3,605
NHN	Hixon	9	0	0	103,800	11,533
NHI	Hornby Island	3	1	0	8,500	2,833
NHR	Hosmer	4	0	0	175,300	43,825
NJK	Joe Rich	1	0	0	1,000	1,000

Loc Code	Location	No. of Fires	Injured	Dead	$ Loss	Loss/Fire
NKA	Kaleden	1	0	0	12,943	12,943
NKP	Kamloops Rural	1	2	0	50,000	50,000
NKR	Kersley	1	0	0	1,000	1,000
NLF	Langford	37	11	0	1,781,671	48,153
NLI	Lasqueti Island	1	0	0	500,000	500,000
NLB	Lone Butte/Horse Lake	1	0	0	4,307	4,307
NMP	Madeira Park	1	0	0	50,000	50,000
NMA	Malahat	1	0	0	611	611
NML	Malaspina	6	2	0	61,859	10,310
NMI	Mayne Island	1	0	0	25,000	25,000
NMR	Merritt Rural	1	0	0	23,000	23,000
NMB	Mill Bay	7	0	0	44,891	6,413
NMO	Moberly Lake	2	0	0	3,500	1,750
NNA	Nanoose Bay	2	0	0	8,712	4,356
NND	Nelson Rural	2	0	0	5,000	2,500
NNB	North Bend	1	0	0	850	850
NNC	North Cedar	5	1	0	155,172	31,034
NNF	North Fraser	2	0	0	11,277	5,639
NNO	North Oyster	5	0	0	163,495	32,699
NNP	North Pender Island	2	0	0	6,850	3,425
NNV	North Vancouver Dist. Rural	1	0	0	7,000	7,000
NOF	Okanagan Falls	7	1	0	192,660	27,523
NOB	Okanagan Indian Res.	2	0	0	18,750	9,375
NOL	Okanagan Landing	6	0	0	58,645	9,774
NOP	Otter Point	1	0	0	53,750	53,750
NPD	Parksville Rural	3	0	0	206,269	68,756
NPC	Pass Creek	1	0	0	66,177	66,177
NPB	Pavilion	1	0	0	7,800	7,800
NPV	Pineview	3	0	0	4,470	1,490
NPA	Port Alberni Rural	6	0	0	16,275	2,713
NQI	Quadra Island	1	0	0	13,000	13,000
NQU	Quatsino	1	0	0	2,500	2,500
NQC	Queen Charlotte City	1	0	0	450,000	450,000
NQR	Quesnel Rural	17	0	0	685,184	40,305
NRH	Radium Hot Springs	2	0	0	51,719	25,860
NRC	Roberts Creek	2	0	0	1,898	949
NSM	Sahtlam	3	0	0	7,900	2,633
NSF	Salt Spring Island	11	0	0	156,697	14,245
NSB	Sasamat	3	0	0	110,500	36,833
NSC	Scotch Creek/Lee Creek	2	0	0	53,800	26,900
NSE	Shawnigan Lake	10	0	0	181,577	18,158
NSJ	Sicamous	10	1	0	88,825	8,883
NSZ	Sooke	10	3	0	77,457	7,746
NSR	Sorrento	6	0	0	338,685	56,443
NSH	South Hazelton	2	0	0	159,000	79,500
NSS	South Slocan	1	0	0	1,300	1,300
NSO	Sproat Lake	4	5	0	38,361	9,590
NTY	Tarry's	3	0	0	48,021	16,007
NTH	Thornhill	3	0	0	31,200	10,400

Loc Code	Location	No. of Fires	Injured	Dead	$ Loss	Loss/Fire
NTL	Tlell	1	0	0	22,000	22,000
NTO	Tomslake	1	0	0	33,090	33,090
NUE	UBC Endowment Lands	37	0	0	181,953	4,918
NUB	Union Bay	1	0	0	80,000	80,000
NVV	Vavenby	1	0	0	1,774	1,774
NVR	View Royal	9	0	0	40,978	4,553
NWE	Westside	20	0	0	166,404	8,320
NWK	Williams Lake Rural	12	3	2	408,239	34,020
NWN	Winfield	11	0	0	524,513	47,683
NWO	Woss	4	0	0	235,579	58,895
NYA	Yale	1	0	0	10,475	10,475
NYM	Ymir	5	0	0	63,300	12,660
NYU	Youbou	2	0	0	10,500	5,250

Non-Municipal Areas With NO Fire Protection
(grouped together into respective regional districts)

RAC	Alberni-Clayoquot R.D.	19	1	0	325,239	17,118
RBN	Bulkely-Nechako R.D.	44	1	0	990,897	22,520
RCA	Capital R.D.	34	0	0	466,488	13,720
RCB	Cariboo R.D.	94	0	1	1,835,372	19,525
RCC	Central Coast R.D.	5	0	1	78,471	15,694
RCF	Central Fraser Valley R.D.	11	1	0	225,557	20,505
RCK	Central Kootenay R.D.	31	0	0	445,357	14,366
RCO	Central Okanagan R.D.	24	0	0	180,902	7,538
RCL	Columbia-Shuswap R.D.	42	0	0	677,412	16,129
RCS	Comox-Strathcona R.D.	40	2	0	354,941	8,874
RCV	Cowichan Valley R.D.	34	0	0	474,572	13,958
RDA	Dewdney-Allouette R.D.	11	0	0	122,016	11,092
REK	East Kootenay R.D.	40	2	0	1,326,694	33,167
RFC	Fraser-Cheam R.D.	34	0	1	456,522	13,427
RFG	Fraser-Fort George R.D.	58	1	0	1,925,872	33,205
RGV	Greater Vancouver R.D.	9	1	0	91,978	10,220
RKI	Kitimat-Stikine R.D.	37	2	1	830,575	22,448
RKO	Kootenay Boundary R.D.	14	1	0	146,166	10,440
RMW	Mount Waddington R.D.	10	0	0	121,114	12,111
RNA	Nanaimo R.D.	19	0	0	484,216	25,485
RNO	North Okanagan R.D.	16	0	0	91,091	5,693
ROS	Okanagan-Similkameen R.D.	47	2	0	870,782	18,527
RPL	Peace River-Liard R.D.	70	0	0	2,120,719	30,296
RPR	Powell River R.D.	10	0	0	124,113	12,411
RSC	Skeena-Queen Charlotte R.D.	16	1	0	404,669	25,292
RSL	Squamish-Lillooet R.D.	22	2	0	1,364,771	62,035
RST	Stikine Region R.D.	2	0	0	402,000	201,000
RSU	Sunshine Coast R.D.	8	0	0	166,026	20,753
RTN	Thompson-Nicola R.D.	82	3	2	5,915,045	72,135

FIRE LOSSES AND CASUALTIES BY MONTH

Month	Fires	$ Loss	Injured	Dead
January	662	6,691,424	38	8
February	581	9,170,344	16	4
March	609	12,863,058	40	3
April	680	7,828,661	38	4
May	664	7,774,690	37	4
June	601	10,626,996	35	2
July	649	10,470,438	47	6
August	671	6,906,645	26	3
September	656	15,135,021	42	0
October	652	9,020,803	20	2
November	569	12,576,140	32	5
December	548	8,095,308	27	1
TOTALS	**7,542**	**117,159,528**	**398**	**42**

STATUS, AGE, AND SEX OF CASUALTY, 1987

	Fires	Injured	Dead
Status of Casualty			
Firefighter	55	107	0
Civilian	251	291	42
Age of Casualty			
Unknown	28	35	0
Birth - 2 years	7	8	1
3 - 4 years	3	3	1
5 - 6 years	4	2	2
9 - 10 years	4	3	1
11 - 12 years	3	3	0
13 - 14 years	4	5	0
15 - 16 years	6	6	0
17 - 18 years	7	8	0
19 - 20 years	10	10	1
21 - 30 years	79	86	9
31 - 40 years	83	94	3
41 - 50 years	58	60	7
51 - 60 years	31	30	3
61 - 70 years	19	17	3
71 - 80 years	25	20	7
81 - 90 years	8	7	4
Over 90 years	1	1	0
Sex of Casualty			
Male	243	311	26
Female	83	87	16

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
AO	**Act or Omission**				
	Incendiary or Set Fires				
AO000	Act or omission unknown	1,138	88	11	33,643,406
AO011	Arson or set fire - financial gain	13			213,418
AO012	Arson or set fire - cover-up crime	168	3		3,496,966
AO013	Arson or set fire - political, religious, riot, civil commotion	1			8,000
AO014	Arson or set fire - revenge, spite	23	1		939,600
AO015	Arson or set fire - mental disorder, attempted suicide, suicide	26	2		318,535
AO016	Arson or set fire - vandalism mischief	342	3		2,000,100
AO018	Arson or set fire - motive unknown or unclassified	318	7		7,204,732
AO019	Suspected set fire - motive unknown or unclassified	386	24		9,441,943
	Misuse of Source of Ignition				
AO021	Smokers' material	435	32	15	5,661,575
AO022	Thawing	1			16,000
AO023	Inadequate control of open fire	79	3		920,312
AO024	Child playing with matches, lighter etc	137	15		1,959,255
AO025	Welding or cutting too close	69	2		2,129,253
AO026	Torch too close	38	2		280,643
AO029	Misuse of source of ignition - unclassified	34	4		1,062,287
	Misuse of Material Ignited				
AO031	Fuel spilled accidentally	42	12	1	1,364,259
AO032	Improper fuelling technique	23	4		26,205
AO033	Flammable liquid to kindle fire	3			10,400
AO034	Cleaning, washing parts	7	1		17,173
AO035	Improper container, metal	3	3		132,423
AO036	Improper container, plastic	7	1		146,960
AO037	Combustible placed too close to heat	84	4		873,527
AO038	Improper storage	30			387,759
AO039	Misuse of material ignited - unclassified	18	2		117,890
	Mechanical or Electrical Failure				
AO041	Part failure, leak, break	1,010	17	1	5,349,068
AO042	Automatic control failure	55	1		1,183,948
AO043	Manual control failure	5			106,600
AO044	Electrical short circuit	727	26	3	11,614,767
AO046	Part worn out	41			508,975
AO049	Mechanical or electrical failure unclassified	327	2		1,422,051
	Construction, Design or Installation Deficiency				
AO051	Design deficiency	16			489,826
AO052	Construction deficiency	60	1		593,538
AO053	Installed too close to combustible	103	7	1	1,056,911

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
AO054	Other installation deficiency	26	1		244,388
AO055	Overfusing	3			2,356
AO056	Suspected faulty connections involving aluminum wiring	5			43,715
AO057	Suspected faulty connections involving copper wiring	10		1	365,011
AO059	Construction design or installation deficiency - unclassified	27			260,920
	Misuse of Equipment				
AO061	Overfuelling	18	1		175,987
AO069	Misuse of equipment - unclassified	42	2		536,078
	Human Failing				
AO071	Asleep	50	9	3	280,793
AO072	Temporary loss of judgement suspected (includes panic)	10	3	1	101,068
AO073	Physical or mental disability	9		1	111,069
AO074	Accident	230	26	1	7,960,634
AO075	Suspected impairment by use of alcohol, drugs or medication	37	7		482,839
AO076	Asleep - suspected use of alcohol, drugs or medication	26	3		264,610
AO077	Ignorance of hazard	475	56	1	4,886,324
AO078	Distracted, preoccupied	314	14		1,872,814
AO079	Human failing - unclassified	125	4	2	983,123
	Vehicle Accident				
AO081	Automobile accident	53	2		221,629
AO082	Industrial truck accident	2			131,000
AO083	Other road vehicle accident	4			262,130
AO084	Rail vehicle accident	1			6,000
AO085	Watercraft accident	1			7,000
AO086	Aircraft accident	1			10,000
AO089	Vehicle accident - unclassified	19	1		68,382
	Miscellaneous Act or Omission				
AO091	Chimney fire (masonry)	75			134,570
AO092	Chimney fire (factory-built)	41			85,853
AO099	Misc. act or omission unclassified	169	2		2,962,930
	TOTALS	**398**	**42**		**117,159,528**
BH	**Building Height**				
BH000	Building height unknown	174			1,188,065
BH001	01 storey or 3m	2,096	138	21	39,200,098
BH002	02 stories or 6m	1,396	124	10	36,845,371
BH003	03 to 04 stories or 9m to 12m	475	51	6	10,749,139
BH004	05 to 06 stories or 15m to 18m	48	10		8,568,744
BH005	07 to 12 stories or 21m to 36m	45	13	2	705,292
BH006	13 to 24 stories or 40m to 73m	35	1		305,967
BH007	25 to 49 stories or 75m to 149m	2			107,000
BH008	50 stories, 152m or more	1			1,000
BH009	Not applicable eg. vehicle outside	3,270	61	3	19,488,852

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
	area, etc.				
	TOTALS	**7,542**	**398**	**42**	**117,159,528**
FH	**Form of Heat**				
FH000	Form of heat unknown	2,727	113	9	48,993,748
FH001	Spark: Ember	224	12		3,912,237
FH002	Spark: Electrical	1,076	41	5	14,809,215
FH003	Spark: Static electrical	39			359,322
FH004	Direct flame, flue gases	1,415	94	6	20,757,343
FH005	Friction heat	53	3		434,604
FH006	Hot object, direct heat by conduction or radiation	1,344	87	4	18,301,985
FH007	Spontaneous ignition	76			1,216,227
FH008	Heat from smoker's material	500	40	17	7,144,779
FH009	Form of heat - unclassified	88	8	1	1,230,068
	TOTALS	**7,542**	**398**	**42**	**117,159,528**
FS	**Fire Service**				
FS000	Fire service unknown	1,307	2	1	4,212,480
FS001	Full time fire department	2,840	169	14	43,864,057
FS002	Volunteer fire department	787	46	10	19,962,059
FS003	Combined full time and volunt. fire department	2,192	167	13	32,323,079
FS004	Police acting as full time firefighters	13	1		155,201
FS005	Combined police and fire department	1			7,000
FS006	Combined police and volunteer firefighters	15			399,000
FS007	Fire service - contract to others	11		1	369,290
FS008	No fire service	347	12	3	15,470,555
FS009	Fire service - unclassified	29	1		396,807
	TOTALS	**7,542**	**398**	**42**	**117,159,528**
FU	**Fuel or Energy**				
FU000	Fuel or energy unknown	1,520	101	9	44,433,818
FU001	Coal, wood	855	26	1	15,450,863
FU002	Fuel, kerosene	111	3		2,581,732
FU003	Gasoline	1,325	29	2	5,704,608
FU004	Natural gas or other fuel gas	409	48	3	8,050,912
FU005	Cigarette, cigar, pipe, match, lighter	971	66	19	11,193,609
FU006	Electricity	1,800	99	7	19,308,464
FU007	Lightning	7			40,954
FU008	Exposure fire	250	12	1	5,012,128
FU009	Fuel or energy - unclassified	294	14		5,382,440
	TOTALS	**7,542**	**398**	**42**	**117,159,528**
ID	**Initial Detection**				
ID000	Initial detection unknown	1,337	3		4,435,799
ID001	Smoke alarm device	170	25	1	2,365,168
ID002	Smoke detector device	88	3	1	652,971

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
ID003	Heat alarm device	27	4		1,692,223
ID004	Heat detector device	25	3		722,117
ID005	Automatic sprinkler system	43			262,330
ID006	Automatic system - other than sprinkler	13			431,718
ID007	Visual sighting	5,713	344	37	105,218,111
ID008	None	61	5		466,953
ID009	Initial detection - unclassified	65	11	3	912,138
	TOTALS	**7,542**	**398**	**42**	**117,159,528**
IG	**Igniting Object (Source of Ignition)**				
IG000	Igniting object unknown	1,603	116	10	46,179,020
IG001	No igniting object	99			2,225,973
	Cooking Equipment				
IG002	Stove, range: Top burner area - fire in pan	398	20	2	2,698,246
IG003	Stove, range: Top burner area - fire in deep fat fryer or pot	142	21		887,979
IG004	Stove, range: Top burner area - other circumstances	86	11	1	1,100,787
IG005	Oven of stove, range	55	2		144,224
IG006	Chafing dish, fondue	4			2,851
IG007	Deep fat fryer - separate appliance	10	1		62,575
IG011	Fry pans, grills not on stove	5			18,986
IG012	Other cooking unit	21			34,912
IG013	Open fired broiler - fixed type	2			1,127
IG014	Open fired broiler - portable type	56	5		688,998
IG015	Food warming appliance	24	5		348,062
IG016	Toaster, waffle iron	14	1		28,293
IG019	Cooking equipment - unclassified	14	1		43,149
	Heating Equipment				
IG021	Central heating unit	74	11	2	1,824,299
IG022	Service water heater	45	7		802,677
IG023	Space heater - stationary	150	8		2,593,024
IG024	Space heater - portable	40	6		676,152
IG025	Fireplace	122	1		1,095,862
IG026	Chimney, masonry	134	1		1,195,363
IG027	Flue pipe, vent connector	29			478,150
IG028	Chimney, factory-built, metal	90			1,066,414
IG029	Heating equipment - unclassified	33	5	1	464,759
	Appliances				
IG031	Television	7	1		40,298
IG032	Radio, phonograph, tape-recorder	5			68,374
IG033	Clothes dryer	72			516,497
IG034	Washing machine	4			4,302
IG035	Air conditioning and refrigeration: Central	1			450,000
IG036	Air conditioning or dehumidifier: Individual	5			28,825
IG037	Refrigeration unit: Individual	28			362,532

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
IG038	Pressing iron, ironing machine	6			85,442
IG039	Portable generator	3			12,925
IG041	Lawnmower	8			10,115
IG043	Electric blanket, heating pad	13	1		98,610
IG044	Incinerator	9			77,900
IG049	Appliance - unclassified	35	2		499,535
	Electrical Distribution Equipment				
IG051	Electrical wiring, cable: Permanent	486	18	3	4,846,896
IG052	Transformer	6			27,000
IG053	Switch gear	7	1		174,536
IG054	Panelboard, switchboard	27			347,295
IG055	Switch, outlet	36	2		392,969
IG056	Electric, wiring, cable: Temporary	89	6		5,622,638
IG057	Signal, telephone equipment	2			101,000
IG058	Battery, rectifier, charger	157	2		412,210
IG059	Electrical distribution equipment - unclassified	33		1	321,699
	Other Electrical Equipment				
IG061	Electric motor: 1 hp and over	28			266,078
IG062	Electric motor: Under 1 h.p.	12	1		6,508
IG064	Electronic equipment: Data processing	2			52,149
IG065	Incandescent lamp	50	8		731,029
IG066	Fluorescent lamp	4			2,902
IG069	Other electrical equipment - unclassified	47	5		501,362
	Smokers' Material and Open Flame				
IG071	Smoker's material: Cigarette, cigar, pipe, matches, lighter	543	56	18	6,513,560
IG072	Match, lighter: Not used in conjunction with smoking	607	25	1	7,410,338
IG073	Lamp	9	3		235,172
IG074	Candle, taper	47	4		671,325
IG075	Cutting torch	35	1		1,102,324
IG076	Welding equipment	51	2	1	1,115,451
IG077	Torch: Other than cutting, welding	53	3		5,459,734
IG078	Hot ashes, embers	88	6		1,037,087
IG079	Smoker's material of open flame - unclassified	45	4	1	803,881
	Exposure				
IG081	Structure: Attached	28			755,169
IG082	Structure: Detached	91	2	1	874,931
IG083	Lumber yard	1			560
IG084	Outside storage container, tank	7			58,129
IG085	'Open' fire	43	1		237,017
IG086	Forest, tree	1			385
IG087	Grass, bush	55	11		2,012,364
IG089	Exposure - unclassified	58			1,159,999

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
	Miscellaneous				
IG090	Internal combustion engine	1,083	7		3,595,369
IG091	Heat treatment equipment	10			314,204
IG092	Industrial oven	9			48,234
IG093	Printing equipment, photographic equipment	1			4,000
IG094	Explosive	6			64,421
IG095	Fireworks	20			241,856
IG096	Bearing, belting, conveyor, brake	8			64,115
IG097	Machinery, equipment: Commercial and industrial	19	3		265,067
IG098	Chemical reaction	39			598,974
IG099	Igniting object - unclassified	153	1		1,792,354
	TOTALS	**7,542**	**398**	**42**	**117,159,528**
IN	**Incident Report**				
IN006	Alarm fire: LAFC report updated by insurance report	1,398	102	16	37,504,937
IN007	No-alarm fire: LAFC report updated by insurance report	66	1		920,532
IN008	Alarm fire: Insurance report only	299			1,670,459
IN009	No-alarm fire: Insurance report only	979	1		2,383,918
IN010	Alarm fire: reported by LAFC only	4,611	290	25	71,491,665
IN011	No alarm fire: reported by LAFC only	189	4	1	3,188,017
	TOTALS	**7,542**	**398**	**42**	**117,159,528**
LV	**Level Origin**				
LV000	Level of origin unknown	245	13		10,513,102
LV001	Basement, sub-basement	456	42	3	8,921,608
LV002	Crawl space, under structure	53	1		1,120,337
LV003	Ground floor, grade level	2,598	204	22	64,242,789
LV004	2nd storey	505	49	7	11,006,028
LV005	3rd storey	100	10	4	1,883,245
LV006	4th to 12th story, inclusive	60	1	1	817,828
LV007	Over 12 storeys	11	2		64,808
LV008	Roof level, includes concealed roof space, attic	194	15	1	4,572,215
LV009	Level of origin - not applicable	3,320	61	4	14,017,568
	TOTALS	**7,542**	**398**	**42**	**117,159,528**
MI	**Material First Ignited**				
MI000	Material first ignited unknown	1,614	109	12	43,332,881
	Structural Materials, Finish Materials				
MI001	Roof covering: Wood	77	2		1,017,945
MI002	Roof covering: Other than wood	21	1		145,210
MI003	Exterior wall covering,surface,finish	161	3	1	2,496,011
MI004	Exterior trim & appurtenance	47	1		930,203
MI005	Floor covering: Wood	54			866,810
MI006	Floor covering: Linoleum, tile, plastic	30	1		199,247
MI007	Floor covering: Carpet, rug	131	7	1	1,200,707

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
MI008	Structural component: Floor, ceiling, roof	100	4		2,804,599
MI009	Structural component: Wall	86	1		2,281,620
MI010	Interior wall covering: wood, fibreboard (high density)	138	11		3,009,105
MI011	Interior wall covering: fibreboard (low density)	36			578,946
MI012	Interior wall covering: plastic	17	6		164,195
MI013	Ceiling covering: wood, fibreboard (high density)	21			1,212,948
MI014	Ceiling covering: fibreboard (low density)	10	2		200,702
MI015	Ceiling covering: plastic	3			107,002
MI016	Insulation: Wood product	15	3	1	336,022
MI017	Insulation: Plastic	51	3		662,253
MI018	Insulation: Mineral	17			96,999
MI019	Structural components, finish materials - unclassified	48	4		428,689
	Furniture, Furnishings				
MI021	Furniture (upholstered)	251	28	14	4,552,858
MI022	Furniture: Wood (not upholstered)	29		2	615,210
MI023	Furniture: Plastic (not upholstered)	3			16,635
MI025	Mattress, pillow	113	8	2	858,932
MI026	Bedding	127	13	1	1,331,350
MI027	Drapery	38	5		534,828
MI028	Broom, mop, brush	3			16,700
MI029	Furniture, furnishings - unclassified	19			49,328
	Clothing, Textiles				
MI031	Clothing: Cotton, on a person	34	1		285,637
MI032	Clothing: Wool, on a persor	2			4,500
MI033	Clothing: Synthetic fibre, on a person	44	1		1,550,503
MI034	Fabric: Cotton	35	1	1	298,154
MI035	Fabric: Wool	2			2,828
MI036	Fabric: Synthetic fibre	32	3		231,826
MI038	Tarpaulin	16	1		21,820
MI039	Clothing, textiles - unclassified	29	2		263,445
	Wood, Paper Products				
MI041	Wood	110	1		6,149,374
MI042	Wood shavings	54	1		706,761
MI044	Paper, packing material	70			536,037
MI045	Paper decoration	14	1		73,366
MI046	Wastepaper	70	2		679,368
MI047	Cardboard	68			771,392
MI048	Paper stock	92	3		5,543,917
MI049	Wood, paper products - unclassified	94	6		1,823,724

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
	Flammable, Combustible Liquids				
MI051	Gasoline	1,122	34	1	5,188,384
MI052	Fuel oil	62	1		1,387,643
MI053	Combustible liquid: Flashpoint 100F and over	72	1		651,100
MI054	Flammable liquid: Flashpoint less than 100F	18	7	1	1,570,582
MI055	Paint, varnish	19	2	1	135,578
MI056	Cooking oil, fat	428	37		2,691,885
MI057	Tar, asphalt	13	2		81,886
MI058	Polish, wax	17			53,226
MI059	Flammable liquids - unclassified	90	11		1,452,980
	Flammable Gases				
MI061	Natural gas	17	5		239,518
MI062	Propane/butane air mixture	35	7	1	1,022,151
MI063	Propane, butane, L.P.G	63	16	1	1,441,918
MI065	Acetylene	6		1	33,049
MI069	Flammable gases - unclassified	15	1		282,215
	Chemicals, Plastics, Metals				
MI072	Cellulose nitrate	8			19,960
MI073	Plastics	165	6		1,141,812
MI074	Oxidizing material	2			30,450
MI077	Rubber, natural or synthetic	64			199,385
MI078	Ammonium nitrate	1			1,000
MI079	Chemicals - unclassified	31			275,258
	Agricultural, Forestry Products				
MI081	Fibres	7			56,972
MI082	Grain, flour, starch	8			30,947
MI083	Hay, straw	33			591,653
MI084	Tree, shrub	41			57,118
MI085	Felled timber	3			37,400
MI086	Grass, brush, leaves	90	11		2,565,670
MI087	Fertilizer, manure	2			14,679
MI088	Christmas tree	2			26,100
MI089	Agricultural, forestry products - unclassified	9			69,661
	Miscellaneous				
MI091	Coal, coke	3			3,650
MI092	Creosote deposits in chimney, flue	149			314,141
MI095	Insulation: Electric	431	5	1	2,066,982
MI096	Garbage, trash, rubbish	248	4		1,397,227
MI097	Oily rags	27			316,861
MI098	Artificial tree	2			500
MI099	Miscellaneous material - unclassified	213	13		2,719,400
	TOTALS	**7,542**	**398**	**42**	**117,159,528**
OA	**Area of Origin**				
OA000	Area of origin unknown	281	15		11,190,192

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
	Means of Egress				
OA001	Hallway, corridor	59	6	1	3,116,289
OA002	Stairway, exterior	32			394,920
OA003	Stairway, interior	38			543,383
OA004	Escalator	1			6,000
OA005	Lobby, entrance way	49	9		1,002,231
OA006	Elevator	8			179,884
OA009	Means of egress - unclassified	18			253,132
	Assembly, Family, Sales Area				
OA011	Large assembly area: Fixed seats	1			1,000
OA012	Large assembly area: Non-fixed seats	7			359,045
OA013	Small assembly area	21			216,447
OA014	Lounge, living room	506	53	15	8,979,532
OA015	Sales, show room area	21	2		6,205,245
OA016	Library, museum	1			1,500
OA017	Sports facility	2			2,250
OA018	Covered court, atrium, mall,concourse	2			30,000
OA019	Assembly, sales area - unclassified	4			77,125
	Function Area				
OA021	Sleeping (under 5 occupants)	397	47	7	5,983,934
OA022	Sleeping (5 or more occupants)	6		1	54,263
OA023	Dining area	30	4	1	3,156,186
OA024	Bar, beverage area	4	2		490,249
OA025	Washroom, locker room	74	22	2	1,138,039
OA026	Office	34	5		2,536,469
OA027	Laboratory	3			25,500
OA028	Display windows	2			77,717
OA029	Printing, photographic reproduction	3			27,288
OA031	Kitchen, cooking area	887	63	6	8,003,529
OA032	Laundry area	136	7		1,764,933
OA033	First-aid, treatment area	1			1,000
OA034	Operating room	1			15,000
OA035	Electronic equipment room	5			21,000
OA038	Process, manufacturing area	26	2		1,004,446
OA039	Function area - unclassified	36	1	1	1,599,683
	Storage Area (Inside Building)				
OA041	Product storage area	48	2		3,647,473
OA042	Closet, lockers	38	6		1,179,650
OA043	Supplies, equipment area	58	4		1,878,999
OA044	Records storage area	4			43,100
OA045	Shipping,receiving area,mail room	10	4		817,351
OA046	Trash, rubbish area	19			101,240
OA047	Vehicle (garage)	164	12		2,246,415
OA048	Agricultural products storage	27			582,687
OA049	Storage area - unclassified	107	5		3,062,996
	Service Facilities				
OA051	Dumbwaiter, conveyor shaft	1			10,000
OA052	Service shaft	3			2,740
OA055	Duct: Heating, air conditioning	5	3		425,150

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
OA056	Duct: Cooking, exhaust	2			6,169
OA057	Chimney: Masonry	116	1		394,480
OA058	Chimney: Factory built metal	99			1,402,286
OA059	Service facilities - unclassified	9			198,832
	Service and Equipment Area				
OA061	Machinery room	27	2		296,000
OA062	Heating equipment room	74	14	1	1,588,341
OA063	Transformer vault	9			119,329
OA064	Incinerator room	3			1,950
OA065	Maintenance shop	48	7	1	2,348,671
OA066	Paint shop	8			498,055
OA069	Service and equipment area - unclassified	25			395,619
	Structural Area				
OA071	Crawl space	33			467,994
OA072	Exterior balcony	58	2		1,489,380
OA073	Ceiling and floor assembly	33	2		733,116
OA074	Ceiling and roof/ceiling space	80	5	1	3,284,269
OA075	Wall Assembly	55	1		890,298
OA076	Exterior wall	140	22	1	5,461,369
OA077	Exterior roof	62	2		485,406
OA078	Awning, canopy	10			39,128
OA079	Structural area - unclassified	33			575,517
	Vehicle Area				
OA082	Vehicle: Engine area	1,556	8		5,635,632
OA083	Vehicle: Fuel area	316	11		1,324,731
OA084	Vehicle: Control area	133	5		685,793
OA085	Vehicle: Passenger area	447	9	1	1,942,506
OA086	Vehicle: Cargo area	105	6		5,547,262
OA089	Vehicle area - unclassified	176	5	2	1,409,880
	Miscellaneous				
OA091	Open area	165	1		2,562,872
OA092	Court, patio, terrace	80	6		1,585,518
OA093	Parking area	46	2		156,643
OA094	Storage area	53			537,771
OA095	Trash, rubbish area	183			204,760
OA099	Outside area - unclassified	178	13	1	2,434,739
	TOTALS	**7,542**	**398**	**42**	**117,159,528**
PR	**Property Classification**				
	Assembly				
PR111	Legitimate theatre	1			1,500
PR112	Motion picture theatre	2			35,000
PR115	Radio, TV studio	1			5,000,000
PR119	Theatre, studio, auditorium - unclassified	1			300
PR121	Bowling alley	1			2,000
PR122	Billiard centre	1			9,307
PR123	Ice rink	5			8,347

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR124	Amusement centre	5			97,800
PR125	Swimming facility	1			3,000
PR126	Ballroom, gymnasium	4			41,030
PR127	Exhibition hall, exposition hall	2			2,075
PR129	Amusement, recreation place - unclassified	6			30,550
PR131	Nursery school, kindergarten	2			250
PR132	Elementary school	21	3		2,569,284
PR133	High school	30			162,050
PR135	School, industrial trade, technical	1			2,000
PR137	Rehabilitation school	1			300
PR138	College, university	20			68,050
PR139	Educational facility - unclassified	4			2,641
PR141	Church, chapel	7			194,517
PR143	Church hall	11			313,958
PR144	Funeral parlour	1			5,098
PR149	Church, funeral parlour - unclassified	1			20,000
PR151	City club	4	4		248,993
PR152	Country club	3			866,987
PR159	Social, sport club - unclassified	9			449,621
PR161	Library	1			47,353
PR163	Art gallery	1			5,000
PR171	Restaurant	61	4		3,199,470
PR172	Night club	3			5,000
PR173	Tavern	5	1		28,850
PR174	Lunchroom, drive-in	11			137,200
PR179	Food or beverage establishment - unclassified	5			20,408
PR187	Marine passenger terminal	3			151,700
PR189	Passenger terminal, station - unclassified	1			3,500
PR192	Legislative hall	1			45,000
PR199	Miscellaneous assembly - unclassified	2			982
	Institutional				
PR211	Prison: Penitentiary for men	2			800
PR214	Reformatory, juvenile detention home	3			61,850
PR217	Police station, with lock-up facilities	2			650
PR221	Home for the aged with nursing staff	4			14,675
PR222	Home for the aged without nursing staff	5	1		11,950
PR233	Children's day care	1			10,000
PR239	Child care - unclassified	1			10,436
PR241	Hospital	11	1		25,610
PR242	Sanatorium, sanatarium, nursing or convalescent home	1			4,484
PR244	Mental hospital	1			250
PR249	Hospital, sanatorium, clinic - unclassified	1			13,933

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR299	Miscellaneous institutional - unclassified	6			172,250
	Residential				
PR311	Dwelling year-round use (1-family)	2,130	138	19	32,055,086
PR312	Dwelling, seasonal use - in season (1-family)	46	2		1,476,187
PR313	Dwelling, seasonal use - off season (1-family)	7		1	158,650
PR314	Dwelling, year-round use (2-family)	127	18	2	2,642,476
PR316	Dwelling, farm (2-family)	1			2,500
PR317	Dwelling, farm (1-family	11	1		269,493
PR318	Dwelling, farm (2-family)	1			300
PR319	Dwelling, 1 & 2 family - unclassified	32	4		320,204
PR321	Apartment, townhouse: 1-2 units with business	15			320,968
PR322	Apartment, townhouse: 1-2 units without business	15	7		111,290
PR323	Apartment, townhouse: 3-20 units with business	48	7		1,792,569
PR324	Apartment, townhouse: 3-20 units without business	193	24	1	1,454,314
PR325	Apartment, townhouse: Over 20 units	208	25	5	2,802,331
PR329	Apartment, townhouse- unclassified	36	1		648,871
PR331	Rooming, boarding, lodging house: 4 to 8 roomers or boarders	8	1		168,146
PR332	Rooming, boarding, lodging house: 9 to 15 roomers or boarders	3			4,700
PR339	Rooming, boarding, lodging house - unclassified	3			44,200
PR341	Hotel, inn, lodge: Year-round use	77	7	3	925,081
PR343	Hotel, inn, lodge: Seasonal use - off season	1			310,021
PR344	Hotel, inn, lodge: Transient dormitory type	4			27,500
PR349	Hotel, inn, lodge - unclassified	2			500
PR351	Motor hotel, motel: Fewer than 3 units	1			2,412
PR352	Motor hotel, motel: 3-20 units	11			76,498
PR353	Motor hotel, motel: Over 20 units	11	10	1	174,069
PR359	Motor hotel, motel - unclassified	1			2,489
PR366	Dormitory: Bunkhouse and workers' barrack	2			131,000
PR371	Mobile home (1 or 2 family unit)	96	7	3	1,723,938
PR372	Houseboat	2			28,500
PR373	Travel trailer	21	4	1	152,164
PR374	Camping trailer	9			17,870
PR375	Motor home	40	3	1	540,325
PR376	Truck with camper	22	2		95,430
PR377	Tent	2			4,082

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR379	Mobile home, trailer - unclassified	45	9		551,363
PR399	Residential miscellaneous - unclassified	7			127,729
	Business and Personal Service				
PR411	General business office	35			2,266,625
PR412	Civic, federal or provincial government office	6			250,398
PR414	Medical, health, research or scientific office	3			33,500
PR417	Post office	1			100
PR418	Document centre, record repository	1			18,000
PR419	Office - unclassified	8			92,942
PR421	Barber or hairdressing establishment	1			750
PR422	Beauty parlour	6			389,567
PR429	Personal service property - unclassified	1			1,500
PR439	Electronic equipment - unclassified	1			5,000
PR499	Miscellaneous business and personal service - unclassified	8			850,675
	Mercantile				
PR511	Supermarket	11	4		1,827,923
PR512	Market, grocery store	10			60,780
PR513	Specialty food store	6			70,500
PR514	Liquor, beverage store	1			500
PR516	Delicatessen	1			26,000
PR519	Food, beverage sale - unclassified	6			10,760
PR521	Clothing store	7			201,060
PR531	Furniture store	6	2		652,644
PR539	Furniture, appliance hardware sales - unclassified	3			4,535,851
PR543	Drug store	4			6,700
PR547	Florist shop, greenhouse	2			2,200
PR548	Optical goods sales	1			25,000
PR552	Sporting goods sales, bicycle sales and repairs	2			11,500
PR553	Photographic supply sales and studios	3			407,500
PR554	Garden supply store	3			401,500
PR556	Pet store, animal hospital	2			50,000
PR559	Recreation, hobby supplies - unclassified	3			177,339
PR561	Furniture repair or upholstery without sales	1			100
PR563	Laundry, self-service	6			53,700
PR564	Laundry, dry cleaner	5			219,269
PR567	Maintenance shop, general	8	1		113,946
PR569	Household repair service - unclassified	1			1,820
PR571	Service station; public	12	2	1	834,772
PR573	Motor vehicle repairs	24	2		1,229,149
PR574	Motor vehicle and trailer sales	4			62,900

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR575	Motor vehicle accessory sales	1			150
PR576	Boat sales	1			12,370
PR579	Motor vehicles, boats, sales and service - unclassified	41			414,795
PR581	Department store	4			155,582
PR582	Variety store - small	4			89,419
PR583	Variety store - large	2			5,913
PR585	Shopping mall - public Areas	5			272,488
PR589	Department, variety store - unclassified	3			2,300
PR591	Professional supply sales	1			500
PR599	Miscellaneous mercantile - unclassified	14	5		1,836,827
	Industrial Manufacturing Properties				
PR613	Plastic manufacture	2			535,000
PR614	Plastic products manufacture	4			119,834
PR615	Paints, varnishes, lacquers, inks, waxes, adhesives manufacture	1			400
PR617	Petroleum refineries	2			105,000
PR618	Asphalt, coal products manufacture	3	1		82,558
PR619	Chemicals, petroleum, paints,plastics manufacture - unclassified	3			358,106
PR621	Sawmill, planing mill	50	2		3,636,359
PR623	Wood, cork products manufacture	3			37,128
PR624	Furniture, bedding manufacture	2			16,500
PR625	Paper, pulp, paperboard manufacture	6			162,500
PR626	Paper, pulp, paperboard products manufacture	2			11,500
PR627	Newspaper, magazine, printing and publishing	1			6,000
PR628	Printing, publishing	2			75,500
PR629	Wood, furniture, paper, printing manufacturing - unclassified	5			158,057
PR631	Basic iron and steel manufacture	1			13,500
PR632	Basic nonferrous metals manufacture	1	1		
PR633	Basic metal products manufacturing	6		1	18,799
PR634	Machinery manufacture	1			100
PR635	Electrical and electronic machinery manufacture	2			32,800
PR636	Electrical and electronic appliance manufacture	1			2,000
PR641	Slaughtering, preparation, preserving of meat	1	1		4,000
PR643	Canning, preserving	3			15,029
PR644	Canning, preserving of fish, sea foods	2			600
PR645	Grain mill products manufacturing	1			1,500
PR649	Food processing - unclassified	1	2		350,000
PR651	Distilling, rectifying, blending spirits	1			1,500
PR653	Breweries	1			400

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR659	Beverage, tobacco, soap, margarine manufacture - unclassified	1			40,000
PR661	Cotton, spinning and weaving	1			600
PR666	Cordage, rope, twine and net manufacture	1			10,000
PR673	Textile goods manufacturing	1			92,908
PR677	Rubber, rubber products manufacturing	2	3		670,500
PR679	Footwear, wearing apparel manufacture - unclassified	1			100
PR681	Shipbuilding and repairing of vessels over 20m	3			7,500
PR682	Boatbuilding and repairing of vessels 20m and under	4	1		380,800
PR684	Motor vehicle manufacturing and assembly	3			33,300
PR689	Vehicles and related equipment - unclassified	30			457,764
PR691	Instrument manufacturing	1			500
PR696	Laundry and dry cleaning plant	2			67,100
PR697	Photographic film processing	1	4		355,000
PR699	Miscellaneous manufacturing - unclassified	5			20,048
	Industrial Storage Properties				
PR711	Seeds, beans, nuts, grain storage in bulk	4			29,200
PR713	Loose or bagged agricultural products storage	1			115,000
PR715	Livestock storage	3			11,100
PR716	Agricultural supply storage	11	1		222,127
PR719	Agricultural products storage - unclassified	4			28,021
PR731	Packaged foodstuffs storage	2			29,600
PR733	Loose or bagged processed foods storage	1			350,000
PR741	Flammable liquids tank storage	2			100,900
PR744	LP gas cylinders storage	4			1,050
PR749	Flammable liquids, gases, petroleum prod storage - unclassified	1			2,647
PR751	Lumberyards, building materials storage	3			38,000
PR752	Wood products storage	6			60,750
PR754	Fibre products storage	2			200
PR756	Paper and paper products storage	5			19,780
PR757	Felled timber, log storage	4			114,175
PR758	Pulpwood pile, cordwood storage	1			2,500
PR763	Plastics and plastic products storage	3			55,617
PR765	Paints and varnishes storage	1			7,246
PR769	Chemicals, plastics, paints storage - unclassified	1			500
PR773	Hardware storage	1			1,500
PR774	Machinery storage	3			87,000

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR775	Electrical appliances and supplies storage	2			1,700
PR777	Scrap and junkyards	2			600
PR779	Metal products, machinery, electrical appliance storage - unclassified	1	1		55,838
PR781	Garage: Individual residentl. parking	124	3		1,058,727
PR782	Garage: General auto parking	16			64,155
PR784	Heavy machine and equipment storage	3			308,000
PR785	Marinas, boat and ship storage	4			606,750
PR787	Railway storage	1			3,500
PR788	Fire stations	1			19,165
PR791	General warehouse	29	23		7,216,660
PR795	Glass and glass products storage	1			1,415
PR798	Pier, wharf, storage in open area	3			817
PR799	Miscellaneous storage properties - unclassified	32			595,047
	Outdoor Property, Vehicles				
PR811	Brush, grass and light ground cover	12			14,571
PR812	Dumps	1			
PR813	Trees	28			24,091
PR814	Fences, poles, railroad ties	23			19,925
PR815	Trash and rubbish	140	3		23,285
PR816	Mailboxes	4			575
PR818	Forest, standing timber	1			60,000
PR819	Outdoor property - unclassified	58			133,342
PR821	Bridge, trestle, overpass, elevated road and railway	2			52,000
PR829	Special connecting thoroughfares - unclassified	1	1		
PR831	Buildings under construction	9			449,116
PR832	Buildings under demolition	2			26,000
PR835	Vacant property	38	2		1,263,879
PR836	Unoccupied property	8			67,300
PR837	Contractors' sheds	3			3,750
PR838	Building under major renovation	2			40,447
PR839	Under construction or demolition - unclassified	4			31,414
PR841	Motor craft (20m and under LOA)	21	9	2	457,700
PR842	Vessel (under 1,000GT)	1			1,500
PR847	Non self-propelled vessel	3			201,000
PR848	Commercial fishing vessel	9	2		94,175
PR849	Watercraft - unclassified	24	6		237,435
PR851	Railway car: Passenger, diner	13			25,337
PR853	Railway car: Freight	2			3,136
PR854	Locomotive, engine, and other power unit	1			15,000
PR858	Railway yard	2	2		500
PR859	Rail transport vehicle and equipment - unclassified	4			1,010,170
PR861	Automobile	2,085	13		4,246,563
PR862	Bus, trackless trolley	15			206,849

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR863	Truck, compressed or LP gas tank	16	1		45,561
PR864	Truck, flammable liquid,chemical tank	3	1		49,392
PR865	Truck, general	349	4		1,318,777
PR866	Motorcycle	19	1		23,800
PR867	Wagon, Non-motorized hauling vehicle	6			4,560
PR868	Industrial or commercial trailer	36	1		630,951
PR869	Ground transport vehicle - unclassified	64	2		425,277
PR871	Aircraft, private	1			10,000
PR875	Helicopter, and vertical take-off aircraft, non military	1			500,000
PR881	Construction equipment	16			365,941
PR882	Farm tractor and equipment	17			141,891
PR883	Crane, mobile and fixed	3	1	1	29,843
PR884	Industrial truck: Fork lift and material handling	10	1		412,186
PR885	Drilling rig; petroleum, gas only	1	2		50,000
PR886	Snowmobile	1			844
PR889	Special vehicle - unclassified or unknown	36	1		995,010
PR891	Pier, wharf	7			874,100
PR899	Miscellaneous special - unclassified	2			1,047
	Miscellaneous Property				
PR911	Laboratory: Chemical, biological and medical	1			10
PR912	Laboratory: Physical, material testing hydraulics	1			9,234
PR919	Laboratories - unclassified or unknown	1			300
PR921	Poultry, egg production	2			6,250
PR922	Cow and cattle production	1			80,000
PR923	Storage barn	15			710,238
PR924	Animal barn, cattel, pigs, horses	16			514,906
PR925	Crops, orchards, straw stacks	2			28,000
PR929	Farm facility - unclassified	16			322,746
PR931	Shed	52			261,626
PR932	Privy	4			2,311
PR934	Awning, canopy	1			300
PR935	Non-metallic mineral product manufacturing	1			7,000
PR937	Conveyor	1			40,000
PR938	Telephone booth	2			2,300
PR939	Miscellaneous outbuildings - unclassified	44			320,736
PR941	Electrical light and power generating plant	3			37,362
PR942	Electric light & power distribution system	4			6,800
PR944	Gas distribution system, pipeline	2	1		1,000
PR945	Heating plant	1			5,500
PR946	Water supply system	3			26,050

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR949	Utility - unclassified	9			65,128
PR951	Structl clay products manufacturing	1			18,000
PR954	Pottery, china, earthenware manufacturing	2			4,500
PR959	Cement, glass, pottery manufacturing - unclassified	2			8,000
PR963	Metal ore mine	1			40,000
PR972	Radio, radar site	2			1,000
PR974	Telephone exchange	1			100
PR996	Groundskeeping equipment	7	1		9,735
	TOTALS	**7,542**	**398**	**42**	**117,159,528**
SD	**Smoke Detector Alarm Operation**				
SD000	No smoke alarm installed	1,987	196	21	58,043,308
SD001	Alarm activated - assisted occupants in evacuating	308	47	2	6,861,074
SD002	Alarm activated - inaudible	9	1		261,845
SD003	Alarm activated - occupants unable to respond	12	1		757,072
SD004	Alarm activated - unnecessary to evacuate	226	22		2,583,331
SD005	Alarm activated - occupant action unknown	93	18	2	2,343,963
SD006	Alarm not activated - unsuitable location	81	3		993,416
SD007	Alarm not activated - no or dead battery	65	6	6	1,459,575
SD008	Alarm not activated - AC power not connected or off	26	1		648,878
SD009	Alarm not activated - mechanical failure	15	1		238,418
SD010	Alarm not activated - unknown	306	18	5	7,119,008
SD011	Not applicable eg. outside area	3,029	73	4	29,159,619
SD099	Smoke alarm operation unknown	1,385	11	2	6,690,021
	TOTALS	**7,542**	**398**	**42**	**117,159,528**
SP	**Sprinkler Protection**				
SP000	Sprinkler protection unknown	1,330	8	1	5,133,863
SP001	Complete sprinkler protection - supervised or standard watchman	64	2		882,892
SP002	Complete sprinkler protection - alarm to fire department	30			345,607
SP003	Complete sprinkler protection - unsupervised, local alarms only	115	5	1	956,819
SP004	Partial sprinkler protection - supervised or standard watchman	29	1		4,710,030
SP005	Partial sprinkler protection - alarm to fire department	17	1		176,700
SP006	Partial sprinkler protection - unsupervised, local alarms only	140	20		4,344,350
SP007	No sprinkler protection	2,992	289	37	81,829,067

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
SP008	Not applicable, eg. vehicle, outside area, etc.	2,812	72	3	18,676,250
SP009	Sprinkler protection - unclassified	13			103,950
	TOTALS	**7,542**	**398**	**42**	**117,159,528**
TI	**Time of Day**				
TI000	Time 0000-0059 hrs	218	23	2	4,747,530
TI001	Time 0100-0159 hrs	313	17	3	7,539,410
TI002	Time 0200-0259 hrs	266	20	8	5,641,444
TI003	Time 0300-0359 hrs	253	18	1	8,017,429
TI004	Time 0400-0459 hrs	217	12	2	4,322,682
TI005	Time 0500-0559 hrs	163	11	5	8,431,988
TI006	Time 0600-0659 hrs	163	15	2	3,182,821
TI007	Time 0700-0759 hrs	164	24	3	1,291,303
TI008	Time 0800-0859 hrs	208	9	1	2,898,905
TI009	Time 0900-0959 hrs	223	18	2	3,680,093
TI010	Time 1000-1059 hrs	310	21	1	3,363,855
TI011	Time 1100-1159 hrs	355	17	1	3,522,052
TI012	Time 1200-1259 hrs	338	9	1	5,457,916
TI013	Time 1300-1359 hrs	356	28		4,144,412
TI014	Time 1400-1459 hrs	377	19		4,609,204
TI015	Time 1500-1559 hrs	394	12	2	3,583,129
TI016	Time 1600-1659 hrs	371	16		9,568,526
TI017	Time 1700-1759 hrs	376	14	1	3,405,217
TI018	Time 1800-1859 hrs	434	30	1	4,966,867
TI019	Time 1900-1959 hrs	367	6		3,808,402
TI020	Time 2000-2059 hrs	305	6	1	2,944,944
TI021	Time 2100-2159 hrs	281	24	4	6,067,478
TI022	Time 2200-2259 hrs	299	12		5,132,809
TI023	Time 2300-2359 hrs	305	15	1	4,636,373
TI099	Time unknown	450	2		2,194,739
	TOTALS	**7,542**	**398**	**42**	**117,159,528**
WD	**Day of Week**				
WD001	Sunday	1,090	61	6	24,541,385
WD002	Monday	992	45	2	12,982,222
WD003	Tuesday	981	57	6	15,230,080
WD004	Wednesday	1,124	65	4	14,302,504
WD005	Thursday	1,074	70	4	18,296,947
WD006	Friday	1,085	39	10	15,168,776
WD007	Saturday	1,196	61	10	16,637,614
	TOTALS	**7,542**	**398**	**42**	**117,159,528**

Circumstances Contributing to Fire Casualties

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
	Condition of Casualty				
FC010	Condition of casualty unknown	82	107	19	11,323,606
FC011	Asleep at time of fire	48	56	10	1,527,150
FC012	Bedridden or other physical handicap	2	1	1	65,000
FC013	Impairment by alcohol, drugs or medication	14	11	4	417,244
FC014	Awake or no physical or mental impairment at time of fire	123	162	4	4,353,947
FC016	Too young to react to fire	6	6	2	141,850
FC017	Mental handicap (senile)	2		2	85,000
FC019	Condition of casualty - unclassified	41	55		2,501,633
	Action of Casualty				
FC020	Action of casualty unknown	86	106	20	10,606,862
FC021	Injured while attempting to escape	51	63	7	3,030,212
FC022	Over exertion or heart attack	1	1		7,962
FC023	Voluntarily entered or remained for rescue purpose	14	16	1	1,355,274
FC024	Voluntarily entered or remained for fire fighting	92	120	2	5,135,499
FC025	Voluntarily entered or remained to save personal property	9	11		1,031,175
FC026	Loss of judgement or panic	16	12	4	298,602
FC027	Received delayed warning	11	13	1	245,164
FC028	Did not act	16	14	4	487,743
FC029	Action of casualty - unclassified	37	42	3	932,947
	Ignition of Fabric				
FC030	Ignition of clothing or fabric not applicable	246	339	30	17,678,989
FC031	Outer clothing	24	22	5	671,925
FC032	Sleepwear	3	2	1	366,300
FC035	Bedding and bed linen	8	7	1	74,450
FC036	Mattress or pillow	1		1	1,000
FC037	Upholstered furniture	6	6	2	85,207
FC039	Ignition of clothing or fabrics - unclassified	17	22	2	396,834
	Type of Fabric				
FC040	Type of fabric or material not applicable	247	334	31	17,779,713
FC041	Cotton	10	10	1	244,212
FC042	Wool	1	1		5,000
FC045	Synthetic fibre	14	11	5	199,521
FC046	Mixture fibres	13	10	3	515,049
FC048	Plastic or plastic foam	1	1		300
FC049	Type of fabric or material ignited - unclassified	21	31	2	578,910

SUMMARY OF FIRE LOSSES BY PROPERTY GROUPS, 1987

Property Class. Codes	Property Group	No. of Fires	Per Cent of Total Fires	$ Loss	Per Cent of Total $ Loss	No. Injured	Per Cent of Total Injured	No. Dead	Per Cent of Total Dead
	Assembly								
131-139	Educational	79	1.0	2,804,575	2.4	3	0.8	0	0.0
172-173	Nightclub, tavern	8	0.1	33,850	.0	1	0.3	0	0.0
171,174,179	Restaurant, eating establishment	77	1.0	3,357,078	2.9	4	1.0	0	0.0
111-129,141-169	Others	75	1.0	7,583,618	6.5	4	1.0	0	0.0
181-199									
	Institutional								
221-229	Home for aged	9	0.1	26,625	.0	1	0.3	0	0.0
231-249	Hospital, day-centre, home	16	0.2	64,713	0.1	1	0.3	0	0.0
211-219,299	Others	13	0.2	235,550	0.2	0	0.0	0	0.0
	Residential								
311-319	One- & two-family dwelling	2,355	31.2	36,924,896	31.5	163	41.0	22	52.4
321-329	Apartment	515	6.8	7,130,343	6.1	64	16.1	6	14.3
331-359	Hotel, motel, rooming house	122	1.6	1,735,616	1.5	18	4.5	4	9.5
361-369	Dormitory, bunkhouse	2	.0	131,000	0.1	0	0.0	0	0.0
371	Mobile home	96	1.3	1,723,938	1.5	7	1.8	3	7.1
373-376	Recreational vehicle	92	1.2	805,789	0.7	9	2.3	2	4.8
372,377-399	Others	56	0.7	711,674	0.6	9	2.3	0	0.0
411-499	**Business and personal service**	71	0.9	3,909,057	3.3	0	0.0	0	0.0
511-599	**Mercantile**	208	2.8	13,773,757	11.8	16	4.0	1	2.4
611-699	**Industrial manufacturing**	164	2.2	7,880,790	6.7	15	3.8	1	2.4
711-799	**Industrial storage**	282	3.7	11,209,287	9.6	28	7.0	0	0.0
	Miscellaneous								
811-829,891	Outdoor property, pier, wharf	277	3.7	1,201,889	1.0	4	1.0	0	0.0
841-849	Watercraft	58	0.8	991,810	0.8	17	4.3	2	4.8
851-859	Rail transport and equipment	22	0.3	1,054,143	0.9	2	0.5	0	0.0
861	Automobile	2,085	27.6	4,246,563	3.6	13	3.3	0	0.0
862-869,881-889	Other grd tranport & special vehicle	592	7.8	4,700,882	4.0	15	3.8	1	2.4
871-879	Aircraft	2	.0	510,000	0.4	0	0.0	0	0.0
831-839,899	Remainder	266	3.5	4,412,085	3.8	4	1.0	0	0.0
911-999									
	TOTALS	**7,542**	**100.0**	**117,159,528**	**100.0**	**398**	**100.0**	**42**	**100.0**

ARSON LOSSES BY PROPERTY GROUP, 1987

Property Class. Codes	Property Group	No. of Arson Fires		Incidence of Arson within Prop. Group (%)	% of ALL Arson Fires in B.C.	Dollar Loss		% of TOTAL $ Loss
		1986	1987	1987	1987	1986	1987	1987
	Assembly							
131-139	Educational	40	49	62.0	4.3	1,170,461	2,584,025	15.0
172-173	Nightclub, tavern	2	5	62.5	0.4	2,000	24,850	0.1
171,174,179	Restaurant, eating establishment	10	18	23.3	1.6	840,916	876,365	5.1
111-129,141-169	Others	39	30	40.0	2.6	1,353,078	504,905	2.9
181-199								
	Institutional							
221-229	Home for aged	2	0	0.0	0.0	8,500	0	0.0
231-249	Hospital, day-centre, home	6	5	31.2	0.4	46,562	25,970	0.2
211-219,299	Others	2	8	61.5	0.7	200	10,800	0.1
	Residential							
311-319	One- & two-family dwelling	193	197	8.3	17.1	3,959,575	4,417,369	25.6
321-329	Apartment	84	109	21.1	9.5	628,377	1,968,837	11.4
331-359	Hotel, motel, rooming house	21	31	25.4	2.7	966,487	203,063	1.2
361-369	Dormitory, bunkhouse	1	1	50.0	0.1	32,142	130,000	0.8
371	Mobile home,mobile camp	7	5	5.2	0.4	74,215	56,341	0.3
373-376	Recreational vehicle	8	16	17.3	1.4	39,257	57,425	0.3
372,377-399	Others	12	4	7.1	0.3	41,788	34,800	0.2
411-499	**Business and personal service**	25	40	56.3	3.5	839,442	3,239,176	18.8
511-599	**Mercantile**	47	68	32.6	5.9	1,077,049	4,706,786	27.3
611-699	**Industrial manufacturing**	26	24	14.6	2.1	1,085,609	1,188,445	6.9
711-799	**Industrial storage**	88	112	39.7	9.7	1,566,782	793,883	4.6
	Miscellaneous							
811-829,891	Outdoor property, pier, wharf	100	107	38.6	9.3	406,881	999,536	5.8
841-849	Watercraft	4	5	8.6	0.4	187,750	44,850	0.3
851-859	Rail transport and equipment	2	7	31.8	0.6	5,850	20,042	0.1
861	Automobile	275	259	12.4	22.5	767,575	810,598	4.7
862-869,881-889	Other grd tranport & special vehicle	96	98	16.5	8.5	548,456	473,978	2.7
871-879	Aircraft	0	0	0.0	0.0	0	0	0.0
831-839,899	Remainder	62	79	29.7	6.9	1,608,421	451,250	2.6
911-999								
	TOTALS	**1,152**	**1,277**		**100.0**	**17,257,373**	**23,623,294**	**100.0**

LARGE LOSS FIRES WITH LOSS OF $500,000 OR MORE

DATE	LOCATION	PROPERTY CLASSIFICATION	ACT OR OMISSION	LOSS	INJ.	DEAD
870224	Prince George	Dwelling year-round use (1-family)	Act or omission unknown	615,016	0	0
870225	Chilliwack	Country club	Act or omission unknown	864,900	0	0
870315	Thompson-Nicola Reg. Dist.	Radio, TV studio	Accident	5,000,000	0	0
870330	New Westminster	Elementary school	Arson or set fire - motive unknown	1,801,506	0	0
870514	Lasqueti Island	Dwelling, seasonal use (1-family)	Act or omission unknown	500,000	0	0
870521	Port Coquitlam	Supermarket	Arson or set fire - motive unknown	500,000	0	0
870603	Vancouver	Supermarket	Arson or set fire - motive unknown	515,260	0	0
870605	Kamloops	Elementary school	Suspected set fire - motive unknown	500,000	3	0
870618	Vancouver	General warehouse	Act or omission unknown	3,293,394	9	0
870629	Vancouver	Apartment: 3-20 units with business	Fuel spilled accidentally	652,325	3	0
870712	Squamish-Lillooet Reg. Dist.	Rail transport vehicle and equipment	Act or omission unknown	1,000,000	0	0
870724	North Cowichan	Pier, wharf	Suspected set fire - motive unknown	850,000	0	0
870728	Nelson	Vacant property	Welding or cutting too close	791,242	1	0
870821	Vancouver	Apartment, townhouse- unclassified	Smokers' material	556,200	1	0
870829	Chilliwack	Apartment: Over 20 units	Arson or set fire - revenge, spite	727,297	0	0
870902	North Vancouver	Marinas, boat and ship storage	Misc. act or omission unclassified	575,000	0	0
870910	Langford	General warehouse	Ignorance of hazard	946,000	0	0
870915	Kelowna	Rubber, rubber products manufacturing	Electrical short circuit	670,000	3	0
870926	Quesnel Rural	Helicopter	Accident	500,000	0	0
870927	Victoria	Furniture, appliance hardware sales	Electrical short circuit	4,486,280	0	0
871010	Burnaby	Sawmill, planing mill	Act or omission unknown	1,492,000	0	0
871025	Pitt Meadows	Supermarket	Act or omission unknown	754,500	4	0
871101	Vancouver	General warehouse	Act or omission unknown	1,525,000	3	0
871115	Vancouver	Miscellaneous mercantile -	Suspected set fire - motive unknown	1,155,000	3	0
871119	Vancouver	General warehouse	Act or omission unknown	600,000	0	0
871208	Matsqui	General business office	Suspected set fire - motive unknown	1,215,378	0	0

10-YEAR FIRE LOSS COMPARISON, 1978 - 1987

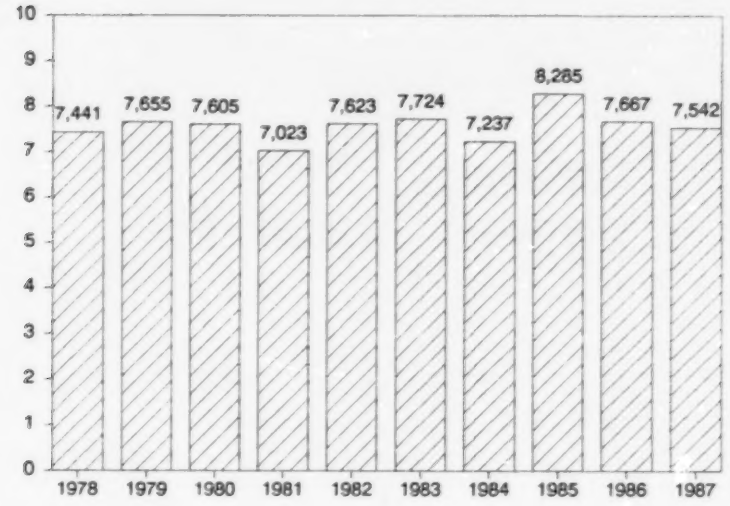
	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
No. of Fires	7,441	7,655	7,605	7,023	7,623	7,724	7,237	8,285	7,667	7,542
Dollar Loss	$81,596,417	$105,900,046	$108,664,176	$115,709,786	$157,296,688	$131,659,496	$108,859,185	$131,932,474	$109,834,964	$117,159,528
Loss per Fire	$10,966	$13,834	$14,289	$16,476	$20,634	$17,046	$15,042	$15,924	$14,326	$15,534
Population (thousands)*	2,555.8	2,566.9	2,636.0	2,744.0	2,783.0	2,823.9	2,870.7	2,892.5	2,889.2	2,925.7
No. of Fires/1000 Persons	2.91	2.98	2.89	2.56	2.74	2.74	2.52	2.86	2.65	2.58
Per Capita Loss	$31.93	$41.26	$41.22	$42.17	$56.52	$46.62	$37.92	$45.61	$38.02	$40.04
CPI Adjustment Factor#	0.743	0.800	0.875	1.000	1.105	1.166	1.213	1.252	1.293	1.333
Loss Adjusted by CPI	$109,820,211	$132,375,058	$124,187,630	$115,709,786	$142,349,944	$112,915,520	$89,743,763	$105,377,375	$84,945,834	$87,891,619
Loss/Fire adj. by CPI	$14,759	$17,293	$16,330	$16,476	$18,674	$14,619	$12,401	$12,719	$11,079	$11,654
Per Capita Loss adjusted by CPI	$42.97	$51.57	$47.11	$42.17	$51.15	$39.99	$31.26	$36.43	$29.40	$30.04
Persons Injured	420	444	308	244	375	404	396	398	343	398
Fire Deaths	98	125	77	76	73	83	79	60	58	42
Deaths/100,000 Persons	3.83	4.87	2.92	2.77	2.62	2.94	2.75	2.07	2.01	1.44

* Population statistics were provided by Statistics Canada. The figures for 1981 and 1986 are actual census figures. The others are estimates by Statistics Canada.

Adjustment Factor. In an effort to get a more realistic picture of losses over the years, some form of adjustment factor was neccessary to take inflation into account. We chose the Consumer Price Index for Vancouver with 1981 = 1.000.

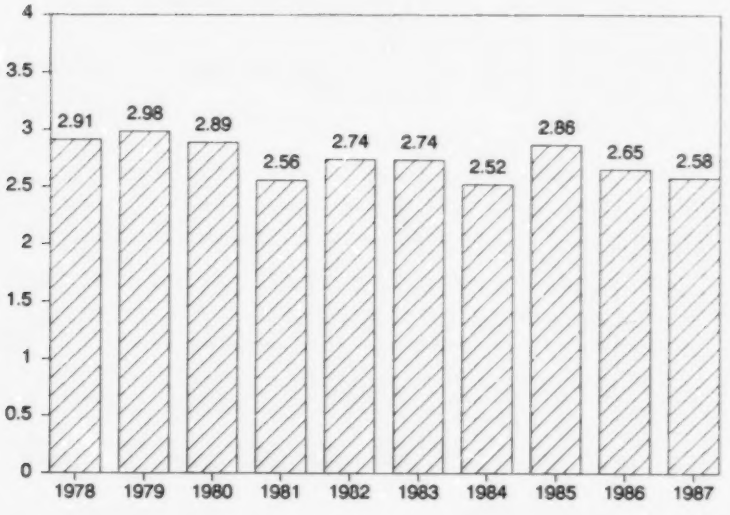
Number of Fires

(In thousands)

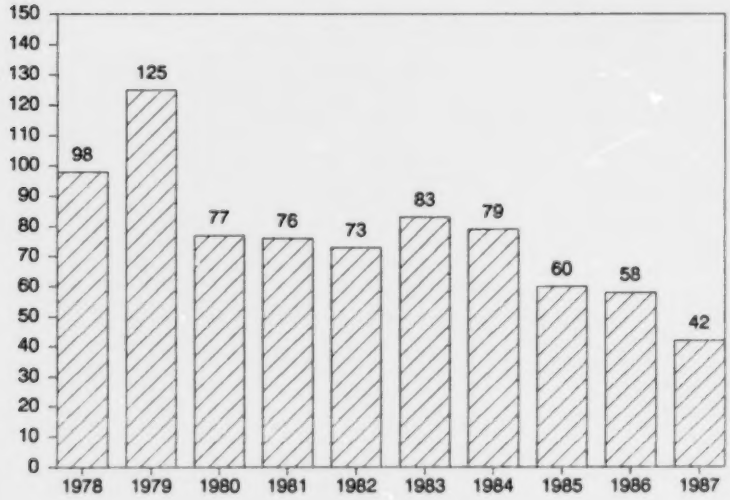


Number of Fires Per 1,000 Persons

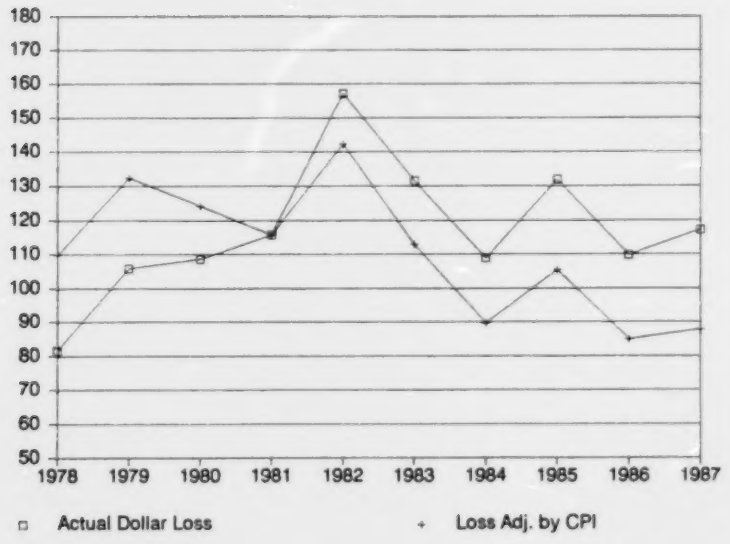
1978 - 1987



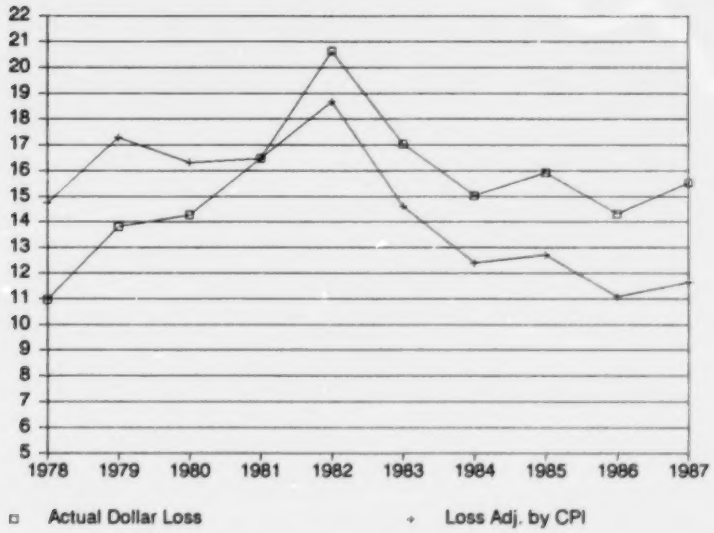
Number of Fire Fatalities



Actual & Adjusted Dollar Losses
(in millions)
1978 - 1987



Actual & Adjusted Average Loss Per Fire
(in thousands)
1978 - 1987



Actual & Adjusted Per Capita Loss